

10 to 30 mol% of ZnO;

0.5 to 35 mol% in total of at least one of BaO and SrO;

1 mol% or less of F;

0.1 to 5 mol% of Al₂O₃; and

1.1 to 10 mol% in total of at least one of Na₂O, K₂O and Li₂O, wherein Li is essential,
and the content of Li₂O is 1.1 to 6 mol%.

Amended.

3. (Amended) A spark plug comprising:

a center electrode;

a metal shell;

an insulator comprising alumina ceramic and disposed between the center electrode and
the metal shell,

wherein at least part of the surface of the insulator is covered with a glaze layer, the glaze
layer contains 1 mol% or less of PbO, the glaze layer has a Vickers hardness Hv of 100 or more,
and the glaze layer contains at least one of phosphate ion, sulfate ion, fluoride ion and chloride
ion.

6. (Amended) The spark plug as set forth in claim 3, wherein the glaze layer further
contains 0.5 to 5 mol% in total of at least one of ZrO₂, TiO₂ and HfO₂.

Amended.

7. (Amended) The spark plug as set forth in claim 3, wherein the glaze layer further
contains 0.5 to 5 mol% in total of at least one of MoO₃, WO₃, Ni₃O₄, Co₃O₄, Fe₂O₃, and MnO₂.

8. (Amended) The spark plug as set forth in claim 3, wherein the glaze layer shows an external appearance of 0 to 6 in chroma Cs and 7.5 to 10 in lightness Vs when observed in the state that the glaze is formed on the insulator.

9. (Amended) The spark plug as set forth in claim 3, wherein the insulator is formed with a projection part in an outer circumferential direction at an axially central position thereof, taking, as a front side, a side directing toward the front end of the center electrode in the axial direction, a cylindrical face is shaped in the outer circumferential face at the base portion of the insulator main body in the neighborhood of a rear side opposite the projection part, and the outer circumferential face at the base portion is covered with the glaze layer formed with the film thickness ranging 10 to 50 μm .

Kindly add new claims 10 and 11 as follows.

--10. A spark plug comprising:

a center electrode;

a metal shell;

an insulator comprising alumina ceramic and disposed between the center electrode and the metal shell,

wherein at least part of the surface of the insulator is covered with a glaze layer, the glaze layer contains 1 mol% or less of PbO , the glaze layer has a Vickers hardness Hv of 100 or more, and the glaze layer is formed by adding at least one of phosphates, sulfates, fluorides and chlorides.

11. A spark plug comprising:

a center electrode;

a metal shell;

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an insulator comprising alumina ceramic and disposed between the center electrode and the metal shell,

wherein at least part of the surface of the insulator is covered with a glaze layer, the glaze layer contains 1 mol% or less of PbO, the glaze layer has a Vickers hardness Hv of 100 or more, and the glaze layer is formed by adding at least one of K₃PO₄ powder, BaSO₄ powder, CaF powder and KCl powder.--
